

May 1, 2023

District Supervisor Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240 Accepted for the record. Incident cancelled due to not meeting reportable event of > 5 barrels of liquid. Operator must remediate volume discharged into the surrounding area and keep records for any future endeavor.

Re: Release Characterization and Remediation Work Plan Maverick Natural Resources EVGSAU 2418-001 Flowline Leak Unit Letter P, Section 24, Township 17 South, Range 34 East Lea County, New Mexico Incident ID# nAPP2310153358

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by Maverick Permian, LLC (Maverick) to assess a release that occurred from a subsurface flow line associated with the East Vacuum Grayburg San Andres Unit (EVGSAU) 2418-001. The release footprint is located off Highway 238, in Public Land Survey System (PLSS) Unit Letter P, Section 24, Township 17 South, Range 34 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.816677°,-103.508215° as shown in **Figures 1** and **2**.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on March 7, 2023. The C-141 reports that the release occurred due to internal corrosion of a surface production flow line leading to a 4 barrel (bbl) spill off-pad. Approximately 3 bbls of produced water and 1 bbl of crude oil were reported released and no liquids were recovered. The NMOCD received the Initial C-141 on April 11, 2023, and subsequently assigned the release Incident ID nAPP2310153358. The initial C-141 Release notification form is included in **Attachment 1**.

1.1 SITE CHARACTERIZATION

Tetra Tech performed a site characterization for the release location which did not identify any watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper The Site is in an area of low karst potential. There are probable playas located less than 0.5 miles from the site, as shown in **Attachment 2**.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are six (6) water wells located within an 800-meter (approximately ½-mile) radius of the release location. The average depth to groundwater reported at these six wells is 82 feet below ground surface (bgs), however, only one well reports current groundwater elevation data less than 25 years old at 45 feet bgs at L 06350 POD3. The site characterization data is included in **Attachment 2**.

REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows for depth to groundwater as less than 50 feet below ground surface (bgs):

	1 7
Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Closure Criteria for Soils Impacted by a Release

Additionally, in accordance with the NMOCD guidance Procedures for Implementation of the Spill Rule (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Reclamation Requirements					
Constituent Remediation RRAL					
Chloride	600 mg/kg				
TPH (GRO+DRO+ORO)	100 mg/kg				

INITIAL RESPONSE ACTIVITIES

The release occurred due to internal corrosion of a surface production flow line consisting of an approximately 1,750 square foot area in open pasture, as shown in **Figure 3**. According to site records, initial response actions were taken by Maverick at the release site on March 8, 2023. Maverick responded to the site and made an initial excavation/scrape of approximately the top 6 inches of impacted material. The scraped material was sent to R360 for disposal. Confirmation samples were not collected during the initial response activities. Tetra Tech conducted a visual site inspection on March 16, 2023, to document the release and initial scrape area. The area encompassing this initial scrape was approximately 4,000 square feet as shown in **Figure 3**.

1.2 SITE ASSESSMENT SUMMARY

On April 6, 2023, Tetra Tech personnel returned to the Site to conduct soil sampling to delineate the release extent and confirm the efficacy of the reported remediation activities conducted during the initial response. A total of eight (8) hand auger borings were installed to achieve horizontal delineation of the release. Hand auger borings (AH-1 through AH-6) were installed along the perimeter of the reported release extent to depths ranging from 0-1 feet

below ground surface to horizontally delineate the release. One additional sample was taken at 1-2 feet bgs at AH-1. Hand auger refusal was encountered between 1 and 2 feet bgs due to hardpan soil material. Two additional hand auger borings, AH-7 and AH-8 were installed 0-1 feet bgs in the center of the release area. Boring locations are presented in **Figure 4**.

A total of nine (9) samples were collected from the eight (8) borings and submitted to Cardinal Laboratory in Hobbs, New Mexico, for analysis of Total Petroleum Hydrocarbons (GRO, DRO, and EXT DRO) by EPA Method 8015M, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA Method SM4500CI-B. Copies of the laboratory analytical data packages are included in **Attachment 3**.

SUMMARY OF SAMPLING RESULTS

Results from the April 6, 2023 soil sampling event are summarized in **Table 1**. The analytical reported concentrations of chloride, TPH, and BTEX as less than RRALs and Reclamation Requirements in samples AH-1 through AH-6. Sample AH-7 reported concentrations of chloride as greater than RRALs and Reclamation Requirements, and AH-8 reported concentrations of BTEX and TPH as greater than RRALs and Reclamation Requirements. Photographic documentation of Site conditions at the time of the assessment is presented in **Attachment 4**.

1.3 REMEDIATION WORK PLAN

Based on the analytical results from the assessment, Maverick proposes to remove the impacted material within the release extent as shown in **Figure 5**. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to an approximate depth of 2 to 4 feet below the surrounding surface until representative samples from the excavation sidewalls and the floor of the excavation report concentrations of constituents as less than Site RRALs and Reclamation Requirements. Heavy equipment will come no more than two feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines which intersect the release footprint will be excavated with hydro-vac excavation or dug by hand to the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation floor and sidewall samples will be collected for verification of remedial activities and analyzed for TPH, BTEX, and chloride. Once analytical results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is between 275 to 550 cubic yards.

CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, Maverick proposes the following alternative confirmation sampling plan to adhere to NMOCD requirements. The proposed confirmation sample locations are depicted in **Figure 6**. Nine (9) confirmation floor samples and six (6) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 3600 square feet.

These confirmation sidewall samples will be representative of approximately 200 square feet each and floor samples will be representative of no more than approximately 500 square feet of the excavated area. Confirmation samples will be submitted to Cardinal Laboratory for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (EPA SM4500CI-B). Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

Post-remediation, the backfilled pasture areas will be seeded (in the next first favorable growing season) to aid in revegetation. Based on the soils at the site, gravelly loam, the New Mexico State Land Office (NMSLO) Coarse (CS) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in pounds of pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a broadcaster and raked. If a broadcaster is used for dispersal, the quantity of PLS per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds PLS per acre are included in **Attachment 5**. Final reclamation will create a landform that approximates and blends in with the surrounding landform while controlling erosion.

1.4 CONCLUSION

Maverick Natural Resources proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (832) 252-2093.

Sincerely,

Stephen Jester

Steve Jester Program Manager Tetra Tech, Inc.

cc: Bryce Wagoner, Maverick Permian, LLC New Mexico State Land Office

Charles H. Terhune IV, P.G. Program Manager Tetra Tech, Inc.

LIST OF ATTACHMENTS

Figures

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Site Features
- Figure 4 Site Assessment Map
- Figure 5 Proposed Remediation Extent
- Figure 6 Confirmation Sampling Plan

Tables

Table 1 – Summary of Analytical Results – Soil Assessment

Attachments

- Attachment 1 C-141 Forms
- Attachment 2 Site Characterization Data
- Attachment 3 Laboratory Analytical Data
- Attachment 4 Photographic Documentation
- Attachment 5 NMSLO Seed Mixture Details

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FIGURES

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TABLES

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TABLE 1 SUMMARY OF ANALYTICAL RESULTS ASSESSMENT SAMPLING - INCIDENT ID NAPP2310153358 MAVERICK NATURAL RESOURCES EVGSAU 2418-001 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

	Field Scrooning Posul						BTEX ²						TPH ³									
Sample ID Sample Date Samp	Sample Depth	Field Screening Results	Chloride ¹		Popzo	20	Tolue	20	Ethylben		Total Xyl	0005	Total B	TEV	GRO)	DRO)	EXT DR	RO	Total TPH	
Sample ID	Sample Date		Chloride PID			Benze	ne	Tolue	ne	Ethylben	zene	ΤΟτάι Αγι	enes	I OLAI D	IEA	C ₆ - C ₅	10	> C ₁₀ -	C ₂₈	> C ₂₈ - 0	C ₃₆	(GRO+DRO+EXT DRO)
	feet bgs	ррт	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requiren	nents (19.15.29 NM	AC)		600		10								50								100
AH-1	4/6/2023	0 - 1		48		< 0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
AH-1	4/6/2023	1 - 2		32		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
AH-2	4/6/2023	0 - 1		16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
AH-3	4/6/2023	0 - 1		128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
AH-4	4/6/2023	0 - 1		48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
AH-5	4/6/2023	0 - 1		64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18.5	1	<10.0		18.5
AH-6	4/6/2023	0 - 1		64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0	1	<10.0		<30.0
AH-7	4/6/2023	0 - 1		1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
AH-8	4/6/2023	0 - 1		30,000		0.934		21.3		40.9		67.2		130		1,530		15,100		2,820		19,450

NOTES:

ft.: Feet

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline range organics

DRO: Diesel range organics

1: Method SM4500Cl-B

2: Method 8021B

3: Method 8015M

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Bold highlighted values indicate concentrations greater than Remediation RRALs or Reclamation Requirements.

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ATTACHMENT 1 – C-141 FORMS

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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Incident ID	nAPP2310153358
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Maverick Permian, LLC	OGRID	331199
Contact Name	Bryce Wagoner	Contact Telephone	(928) 241-1862
Contact email	Bryce.Wagoner@mavresources.com	Incident # (assigned by OCD)	nAPP2310153358
Contact mailing add	Iress 1410 NW County Road Hobbs, New Mexico 88240		

Location of Release Source

Latitude 32.81670

Longitude -103.50798 (NAD 83 in decimal degrees to 5 decimal places)

Site Name	EVGSAU 2418-001	Site Type Flowline Leak
Date Release Discovered	03/08/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
Р	24	17S	34E	Lea

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 3	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
C (D)		

Cause of Release

Internal corrosion of a surface production flow line leading to a 5 bbl spill off-pad. No fluid was able to be recovered upon discovery.

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes Xo	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Not Applicable	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Bryce Wagoner	Title: Permian HSE Specialist
Signature:	Date: 4/21/2023
email: <u>Bryce.Wagoner@mavresources.com</u>	Telephone: (928) 241-1862
OCD Only	

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Oil Conservation Division

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	Yes 🕅 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗶 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes 🔀 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- \mathbf{x} Field data
- $\underline{\mathbf{x}}$ Data table of soil contaminant concentration data
- \mathbf{x} Depth to water determination
- x Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs NA
- x Photographs including date and GIS information
- x Topographic/Aerial maps
- \mathbf{x} Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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			Facility ID	
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regulations all ope public health or the failed to adequated addition, OCD acc and/or regulations. Printed Name: Signature: email:Bryce.W		ifications and perform co OCD does not relieve the eat to groundwater, surfa	prrective actions for rele e operator of liability sho ce water, human health liance with any other feo <u>HSE Specialist</u>	ases which may endanger ould their operations have or the environment. In
OCD Only Received by:	Jocelyn Harimon	Date: 05	5/12/2023	

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Oil Conservation Division

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

 \mathbf{x} Detailed description of proposed remediation technique

x Scaled sitemap with GPS coordinates showing delineation points

 \mathbf{x} Estimated volume of material to be remediated

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x Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

x Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.							
Deferrar Requests Omy. Each of the following tems must be confirmed as part of any request for deferrat of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.							
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health, the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name:Bryce Wagoper Title:Permian HSE Specialist							
111100111101 operations 1111/2023							
Signature: Date:							
email: <u>Bryce. Wagoner@mavresources.com</u> Telephone: <u>(928) 241-1862</u>							
OCD Only							
Received by: Jocelyn Harimon Date:05/12/2023							
Approved V Cancelled Denied Deferral Approved							
Signature:							

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each og	f the following items must be included in the closure report.					
A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Photographs of the remediated site prior to ba must be notified 2 days prior to liner inspection)	ackfill or photos of the liner integrity if applicable (Note: appropriate OCD District office					
Laboratory analyses of final sampling (Note: a	appropriate ODC District office must be notified 2 days prior to final sampling)					
Description of remediation activities						
and regulations all operators are required to report a may endanger public health or the environment. The should their operations have failed to adequately in human health or the environment. In addition, OCL compliance with any other federal, state, or local lar restore, reclaim, and re-vegetate the impacted surface	true and complete to the best of my knowledge and understand that pursuant to OCD rules and/or file certain release notifications and perform corrective actions for releases which he acceptance of a C-141 report by the OCD does not relieve the operator of liability vestigate and remediate contamination that pose a threat to groundwater, surface water, D acceptance of a C-141 report does not relieve the operator of responsibility for ws and/or regulations. The responsible party acknowledges they must substantially ace area to the conditions that existed prior to the release or their final land use in ification to the OCD when reclamation and re-vegetation are complete.					
Printed Name:	Title:					
Signature:	Date:					
email:	Telephone:					
OCD Only						
Received by:	Date:					
	esponsible party of liability should their operations have failed to adequately investigate and adwater, surface water, human health, or the environment nor does not relieve the responsible r local laws and/or regulations.					
Closure Approved by:	Date:					

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May 1, 2023

ATTACHMENT 2 – SITE CHARACTERIZATION DATA







New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD has been replaced O=orphaned, C=the file is	(0	•						B=SW 4=SE	,	toro		In fact)	
water right file.)	closed)	((quar	ter	s ai	e sr	nalles	t to lar	gest) (N	AD83 UTM in me	eters)	(In feet)	
	Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin C	ounty	64	16	4 \$	Sec	Tws	Rng	Х	Y	Distance	-	-	Column
L 05022	L	LE		3	4	24	17S	34E	639310	3631773* 🌍	389	140	80	60
L 04829 POD7	L	LE	3	3	3	19	17S	35E	640012	3631688* 🌍	451	210	70	140
L 05439	L	LE	2	3	3	19	17S	35E	640212	3631888* 🌍	564	135	85	50
L 03846	L	LE		4	2	24	17S	34E	639699	3632588* 🌍	630	225		
L 14650 POD3	L	LE	1	1	2	25	17S	34E	639107	3631506 🌍	708	250	45	205
L 06357 S	L	LE		1	1	30	17S	35E	640119	3631386* 🌍	739	163	85	78
L 06357 S2	L	LE	3	1	1	30	17S	35E	640017	3631285 🌍	766	230	130	100
										Avera	ge Depth to	Water:	82	feet
											Minimum	Depth:	45	feet
											Maximum	Depth:	130	feet
Record Count: 7			_	_										
Basin/County Search	<u>.</u>													
O a sure from 1 a a														

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 639651.87

Northing (Y): 3631959.56

Radius: 800

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/20/23 11:29 AM

May 1, 2023

ATTACHMENT 3 – LABORATORY ANALYTICAL DATA



April 14, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: EVGSAU - 2418-001

Enclosed are the results of analyses for samples received by the laboratory on 04/10/23 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 1 (0-1') (H231663-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7	
Total BTEX	<0.300	0.300	04/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					
Surrogate: 1-Chlorooctane	70.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 1 (1-2') (H231663-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7	
Total BTEX	<0.300	0.300	04/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 2 (0-1') (H231663-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7	
Total BTEX	<0.300	0.300	04/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	6 49.1-14	8						

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TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 3 (0-1') (H231663-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7	
Total BTEX	<0.300	0.300	04/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 4 (0-1') (H231663-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7	
Total BTEX	<0.300	0.300	04/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 5 (0-1') (H231663-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7	
Total BTEX	<0.300	0.300	04/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	18.5	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 6 (0-1') (H231663-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7	
Total BTEX	<0.300	0.300	04/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/13/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 7 (0-1') (H231663-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7	
Total BTEX	<0.300	0.300	04/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	04/13/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2418-001	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02279	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 8 (0-1') (H231663-09)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.934	0.500	04/14/2023	ND	1.90	95.0	2.00	14.7	
Toluene*	21.3	0.500	04/14/2023	ND	2.06	103	2.00	15.7	
Ethylbenzene*	40.9	0.500	04/14/2023	ND	2.12	106	2.00	15.4	
Total Xylenes*	67.2	1.50	04/14/2023	ND	6.40	107	6.00	14.7	
Total BTEX	130	3.00	04/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	04/13/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1530	100	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	15100	100	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	2820	100	04/13/2023	ND					
Surrogate: 1-Chlorooctane	326	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	403	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose share there are also on the services are interruptions, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Uy	OCD ^{Relinquished by:}	5/12/2 minuter by.	023	Telinquished by:	5:2.	9	×	4	61	5	4	w	2	1	(LAB USE)	LAB #	H231663	Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	F			
	Date:		cores	Ainen A		AH-8 (0-1')	AH-7 (0-1')	AH-6 (0-1')	AH-5 (0-1')	AH-4 (0-1')	AH-3 (0-1')	AH-2 (0-1')	AH-1 (1-2')	AH-1 (0-1')		SAMPLE IDENTIFICATION			Cardinal Labs	chuck.terhune@tetratech.com	Lea County, NM	EVGSAU - 2418-001	Maverick	Tetra Tech.			
	Time:	, ind	Timo	Time:												Ň				om				h, Inc.			
	Received by:	Neceived by.		Received by	4/6/2023	4/6/2023	4/6/2023	4/6/2023	4/6/2023	4/6/2023	4/6/2023	4/6/2023	4/6/2023	4/6/2023	DATE	YEAR: 2023	SAMPLING		Sampler Signature:		Project #:		Site Manager:				
			and dit		×	×	×	×	×	×	×	×	×	×	TIME WATER	2					2	(281) /55-8965 chuck.terhune@tetratech.con	Chu				
	Date: Time:		101	Malled 11101	A A A A A A A A A A A A A A A A A A A	< ×	×								HCL HNO3			Miguel A. Flores	2	212C-HN-02279	5 @tetratech.c	Chuck Terhune	901 W Wall Street, Ste 100 Midland,Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946				
								×	×	×	×	×	×	×	ICE # CONT	AIN	METHOD		sa.		79	m		59 59 59			
	80	Sam	23	Sa	×	×	×	×	×	×	×	×	×	×	FILTER	ED (Y/N) B BTI	EX 8260	в								
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	Specia	Rush	RUSH	REMARKS:											TCLP Vo TCLP Se RCI GC/MS V	emi V	es /olatiles	3				_	ANALYSIS				
	Special Report Limits or	Rush Charges Authorized	RUSH: Same Day			Same Day												GC/MS S PCB's 8 NORM PLM (As	082	/ 608	3270C/62	25			_	ANALYSIS REQUEST	
	s or TRRP Report		24 hr 48 hr		×	×	×	×	×	×	×	×	×	×	Chloride Chloride General Anion/C	Wat		emistry (see at	tached	list)		r No.)				
	ort		72 hr											_		_		-	_			=	Г	Page 12			

Release Characterization Work Plan Maverick Permian, LLC EVGSAU 2418-001 Incident ID: nAPP2310153358 May 1, 2023

ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION

SE

STE Assessment etra Tech



Maverick - EVGSAU 2418-001 Apr 06 2028, 09:49:54 MDT

S SW NW 270 50 180 24 210 330 300 ② 243°SW (T) LAT: 32.816789 LON: -103.508175 ±4m ▲ 1220m

Site Assessment Tetra Tech



Maverick - EVGSAU 2418-001 Apr 06 2023: 09:49:37 MDT

N NE E SE 0 30 60 90 120 150 90 120 100 100 100 90 60 90 120 100 90 60 100 100 100 90 120 100 100 90 120 100 100 90 120 100 90 120 100



Maverick - EVGSAU 2418-001 Apr 06 2023, 09:50:05 MDT

NW V NE 240 270 300 330 0 30 • <t ③ 322°NW (T) LAT: 32.816579 LON: -103.508103 ±4m ▲ 1221m

Site Assessment Tetra Tech





SE SW

Site Assessment

Naverick - EVGSAU 2418-001 Apr 06 2023, 09:50:19 MDT

SW NW 270 180 240 210 300 330 0 ② 267°W (T) LAT: 32.816662 LON: -103.508017 ±4m ▲ 1220m

Site Assessment Tetra Tech



Apr 06 2023, 09:51:03 MDT

SW 210 240

Site Assessment Tetra Tech

NW 300 330 270 30 ③ 301°NW (T) LAT: 32.816658 LON: -103.508012 ±4m ▲ 1221m



Maverick - EVGSAU 2418-001 Apr 06 2023, 09:50:58 MDT

Release Characterization Work Plan Maverick Permian, LLC EVGSAU 2418-001 Incident ID: nAPP2310153358 May 1, 2023

ATTACHMENT 5 – NMSLO SEED MIXTURE DETAILS

Coarse (CS)

COARSE (CS) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Sand bluestem	VNS, Southern	2.0	F	
Sideoats grama	Vaughn, El Reno	2.0	F	
Blue grama	Hachita, Lovington	1.5	D	
Little bluestem	Cimmaron, Pastura	1.5	F	
Sand dropseed	VNS, Southern	1.0	S	
Plains bristlegrass	VNS, Southern	0.75	D	
Forbs:				
Parry penstemon	VNS, Southern	1.0	D	
Desert globemallow	VNS, Southern	1.0	D	
White prairieclover	Kaneb, VNS	0.5	D	
Sulfur buckwheat	VNS, Southern	0.5	D	
Shrubs:				
Fourwing saltbush	VNS, Southern	1.0	D	
Skunkbush sumac	VNS, Southern	1.0	D	
Common winterfat	VNS, Southern	1.0	F	
Fringed sagewort	VNS, Southern	0.5	\mathbf{F}	
	Total PLS/acr	e 18.25		

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

• VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.

- Double above seed rates for broadcast or hydroseeding.
- If Parry is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow.
- If one species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



Released to Imaging: 8/1/2023 8:24:18 AM

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	216437
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvele	Incident cancelled due to not meeting reportable event of > 5 barrels of liquid. Operator must remediate volume discharged into the surrounding area and keep records for any future endeavor.	8/1/2023

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